



1) SMA 905

Basic features

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|----------------------------|--------------------------------|
| Basic standard | IEC 60947-5-2 |
| Reference base unit | BFS 33M-GSS-.. |
| Use | for fiber optic base units BFB |
| Version | M6, coaxial optics |

Environmental conditions

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|--|----------------------------|
| Ambient temperature | -55...70 °C |
| Ambient temperature connection area | Acc. to fiber optic sensor |
| IP rating | IP65 |

Material

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|--|------------------------------|
| Active surface, fiber arrangement | Ring around individual fiber |
| Fiber type material | PMMA |
| Housing material | 1.4305 stainless steel |
| Material jacket | PE |

Mechanical data

| | |
|---------------------------------------|--|
| Active surface, fibers | Ø 0.25 mm (16x) Ø 1.0 mm |
| Cable diameter D | 2.20 mm |
| Cable length L | 5 m |
| Cable, bending radius min. | 25 mm |
| Connection type | Cable, 5 m, PE |
| Dimension | Ø 6 x 17 mm |
| Fiber optic cable, structure | Single fiber in plastic jacket Fiber bundle in plastic jacket |
| Length B min., without bending | 20.00 mm |
| Mounting part | Nut M6x0.75 |
| Tensile load max. at 20 °C | 6 N (max. 3s) |

Range/Distance

| | |
|------------------------------------|-------|
| Range | 80 mm |
| Rated operating distance Sn | 80 mm |
| Real switching distance sr | 80 mm |

Remarks

The cutting tool is included in the scope of delivery order other accessories separately.
 Cut cable to length: use suitable cutting tool. Make a single cut, vertical to cable axis. The cut quality can affect the switching distance.
 Reference object (target): gray card, 200 x 200, 90 % remission, axial approach.
 Route fiber optic cable so that no excessive tensile, compression or torsional forces are permitted. Observe permissible bending radiuses. Installation may affect the switching distance.

Opto Symbols

